

# Comparisons of Job Characteristics

**Focus Occupation:** Refractory Materials Repairers, Except Brickmasons (49-9045)

**Associated Occupation:** Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic (51-4191)

Compare Knowledge

Compare Skills

Compare Abilities

Compare Detailed Work Activities

Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 72

**Focus Occupation:** Refractory Materials Repairers, Except Brickmasons (49-9045)

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Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Production and Processing	6.0	8.6	7.4	< Expanded education and/or training may be required
Chemistry	4.8	7.3	5.5	<< Extensive education and/or training may be required
Physics	4.3	6.1	2.8	<< Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 90

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Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Operation and Control	5.4	12.0	8.4	<< Extensive development of skills in this area may be required
Operation Monitoring	6.6	11.8	9.6	< A higher skill level may be required
Equipment Maintenance	3.5	8.9	8.0	< A higher skill level may be required
Repairing	3.4	8.1	8.3	0 Current skill level may be sufficient
Troubleshooting	4.5	7.3	7.9	0 Current skill level may be sufficient
Equipment Selection	3.3	6.7	5.6	< A higher skill level may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Abilities	Similarity of Focus Occupation to Associated Occupation: 78
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Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Reaction Time	4.8	11.6	8.3	<<	Extensive improvement in abilities may be required
Selective Attention	8.7	11.4	9.5	<	Some improvement in abilities may be required
Multilimb Coordination	6.0	10.8	9.7	<	Some improvement in abilities may be required
Static Strength	5.0	10.8	6.7	<<	Extensive improvement in abilities may be required
Rate Control	3.8	9.5	6.4	<<	Extensive improvement in abilities may be required
Stamina	4.0	8.9	6.4	<<	Extensive improvement in abilities may be required
Response Orientation	4.0	8.8	5.6	<<	Extensive improvement in abilities may be required
Speed of Limb Movement	3.2	7.1	4.5	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common	Similarity of Focus Occupation to Associated Occupation: 57
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<b>Focus Occupation: Refractory Materials Repairers, Except Brickmasons (49-9045)</b> <b>Associated Occupation: Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic (51-4191)</b>
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Work Activities	Exclusivity of Activity
Fabricate, assemble, or disassemble manufactured products by hand	11
Move or fit heavy objects	8
Operate hoist, winch, or hydraulic boom	34
Read work order, instructions, formulas, or processing charts	9

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common	Similarity of Focus Occupation to Associated Occupation: n/a
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Tools and Technologies	Exclusivity
Tools and technology data is unavailable for one or both occupations.	

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.